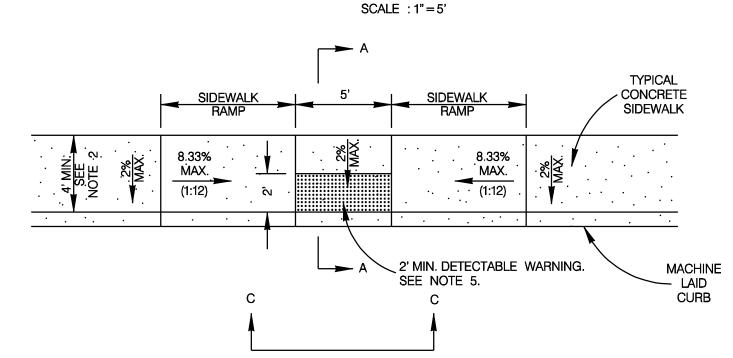


## TYPICAL SIDEWALK RAMP - TYPE SIDEWALK ABUTS THE CURB

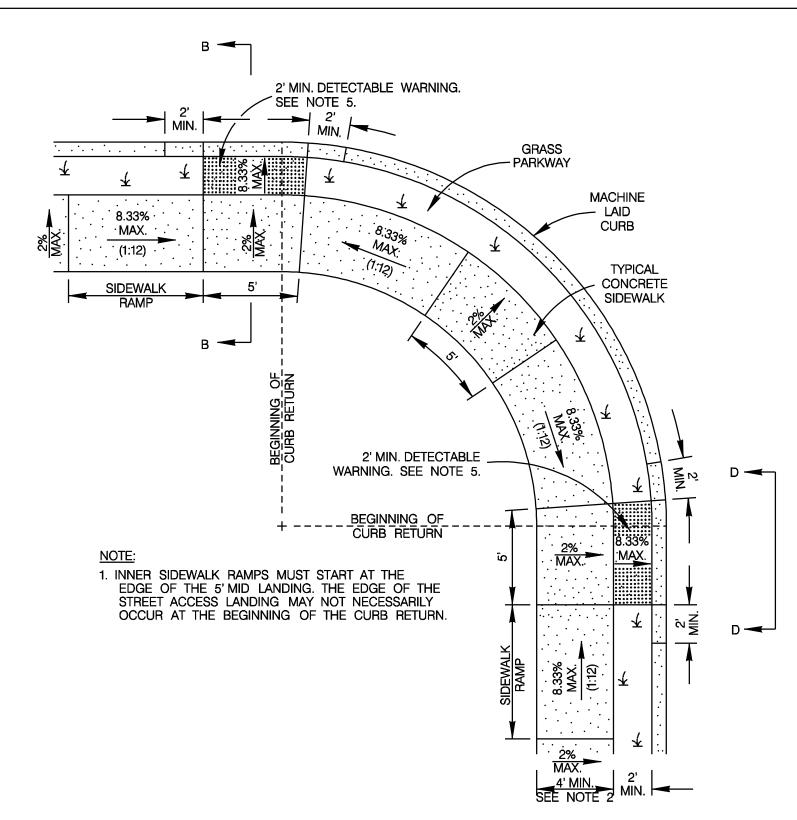


TYPICAL SIDEWALK RAMP - TYPE II USED AT TEE INTERSECTIONS WHERE SIDEWALK ABUTS CURB

SCALE : 1" = 5'

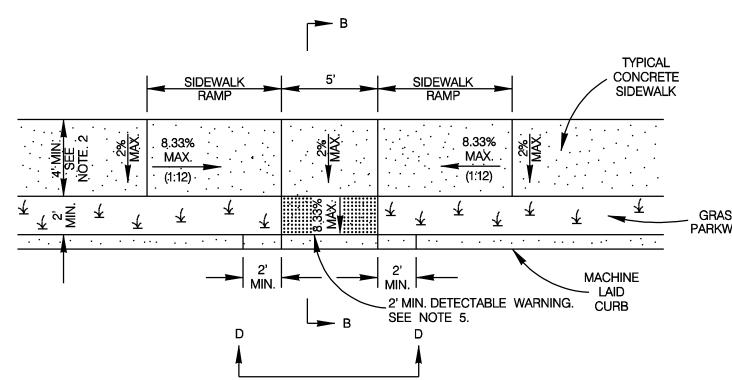
## GENERAL NOTES

- 1. WHEN POSSIBLE SIDEWALKS SHOULD BE PLACED NEXT TO THE PROPERTY LINE, ALLOWING A MININMUM OF 1 FOOT BUFFER, DEVIATION OF THE PATHWAY FROM A STRAIGHT LINE IS ENCOURAGED TO AVOID TREES OR
- 2. FOR LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 2' FROM THE BACK
- 3. FOR OTHER THAN LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4' AND SEPARATED A MINIMUM OF 2' FROM THE BACK OF CURB OR AS AN OPTION, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 6'WHEN LOCATED AT THE BACK OF CURB.
- 4. SIDEWALK RAMP LENGTHS PRESENTED IN TABLE 1 ARE GUIDELINES ONLY. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE.
- 5. ALL CURB-RAMPS OR LANDINGS ABUTTING THE CROSSWALK SHALL HAVE A DETECTABLE WARNING 24 INCHES DEEP (IN THE DIRECTION OF PEDESTRIAN TRAVEL) AND EXTENDING THE FULL WIDTH OF THE CURB RAMP OR LANDING. THE DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES, ALIGNED IN A GRID PATTERN WITH A DIAMETER OF A NOMINAL 0.9 INCHES (23 MM), A HEIGHT OF NOMINAL 0.2 INCHES (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHÈS (60 MM).
- 6. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE
- 7. SIDEWALK RAMP TYPE V SHALL BE USED ONLY WHERE THERE IS SIGNIFICANT RESTRICTION WITHIN THE PARKWAY TO CONSTRUCT TYPE I OR TYPE III RAMPS.
- 8. CONSTRUCTION OF ALL WHEELCHAIR RAMPS TO BE INCLUDED UNDER ITEMS "500 CONCRETE CURBING", "501 MACHINE LAID CURB" AND /OR "502 CONCRETE SIDEWALKS". RAMP SURFACE SHALL BE BRUSH
- 9. THESE DETAILS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS OF WHEELCHAIR RAMPS TO BE SHOWN ON CONSTRUCTION PLANS. CITY CONSTRUCTION INSPECTOR CAN ADJUST LOCATIONS FOR SAFETY OR
- 10. SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.
- 11. WHEELCHAIR RAMP SHALL BE CONSTRUCTED WITH 4" CLASS "A" CONCRETE AND 2" GRAVEL, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL.
- 12. REINFORCING STEEL SHALL BE #3 BARS AT 18" O.C.E.W. OR 6" x 6" W2.9 x W2.9 WIRE MESH.
- 13. SIDEWALK GRADES SHALL NOT EXCEED THE GRADE ESTABLISHED FOR THE ADJACENT ROADWAY, ANY SIDEWALK CONSTRUCTION THAT DEVIATES FROM THE NATURAL GRADE OF THE ROADWAY TO CREATE A GRADE STEEPER THAN THE EXISTING ROADWAY WILL REQUIRE RAMPS, HANDRAILS AND RESTING PLATFORMS TO BE CONSTRUCTED IN ACCORDANCE WITH ADA AND TAS STANDARDS.
- 14. SIDEWALK CROSS GRADE SHALL HAVE A MAXIMUM SLOPE OF 2%. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
- 15. THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES SHALL BE LESS THAN 11%. THE CHANGE OF GRADE SHALL BE DEFINED AS THE ALGEBRAIC DIFFERENCE OF THE ADJACENT SURFACE SLOPES. IN THE CASE OF A STREET ACCESS RAMP DESIGNED AT THE 8.33% MAXIMUM SLOPE, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN 2.67% (I.E. 8.33-(-2.67) = 11). IN ADDITION, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN OR EQUAL TO 5%.
- 16. IF THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES IS GREATER THAN OR EQUAL TO 11%, A LEVELING STRIP, 2 FEET IN LENGTH, SHALL BE PROVIDED TO TRANSITION THE ADJACENT SURFACES.
- 17. ADA COMPLIANCE IN ALTERATIONS INCLUDE ONLY THAT WORK WITHIN THE LIMITS, BOUNDARIES OR SCOPE OF A PLANNED PROJECT.

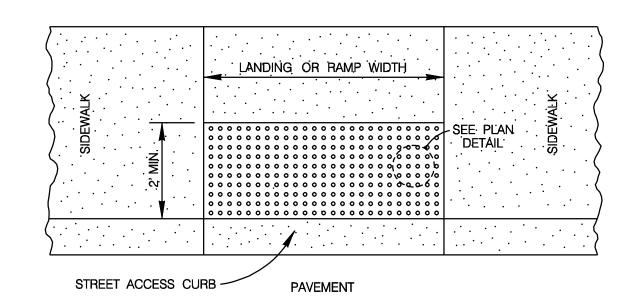


TYPICAL SIDEWALK RAMP - TYPE III SIDEWALK SEPARATED FROM CURB

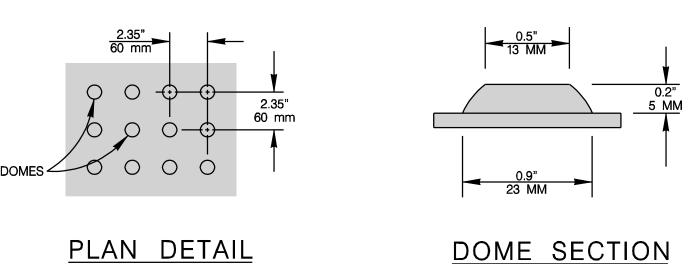
SCALE : 1" = 5'



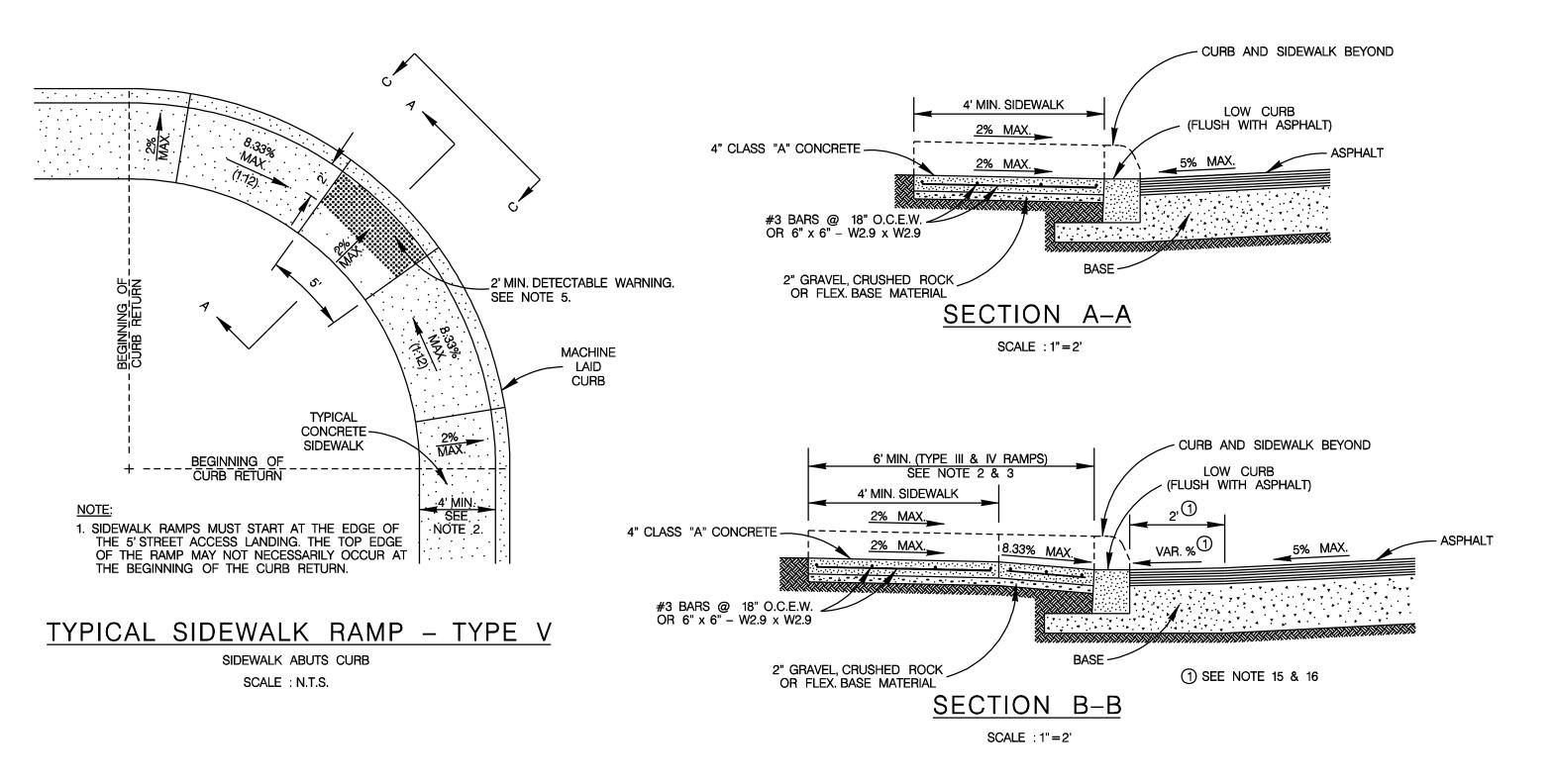
TYPICAL SIDEWALK RAMP - TYPE IV USED AT TEE INTERSECTIONS WHERE SIDEWALK IS SEPARATED FROM CURB SCALE : 1" = 5'

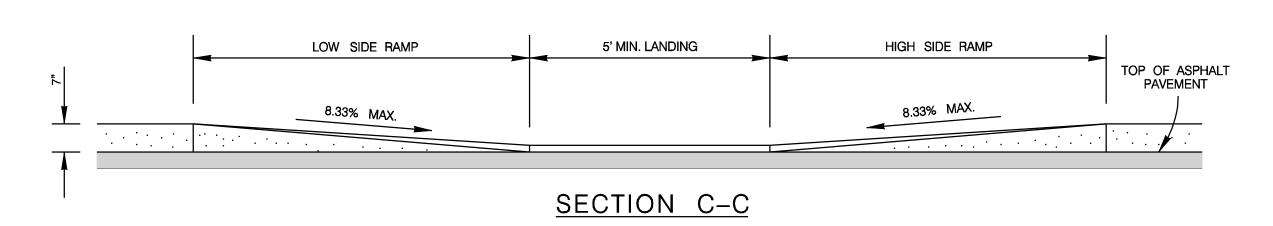


DETECTABLE WARNING AREA SCALE : 1" = 2'



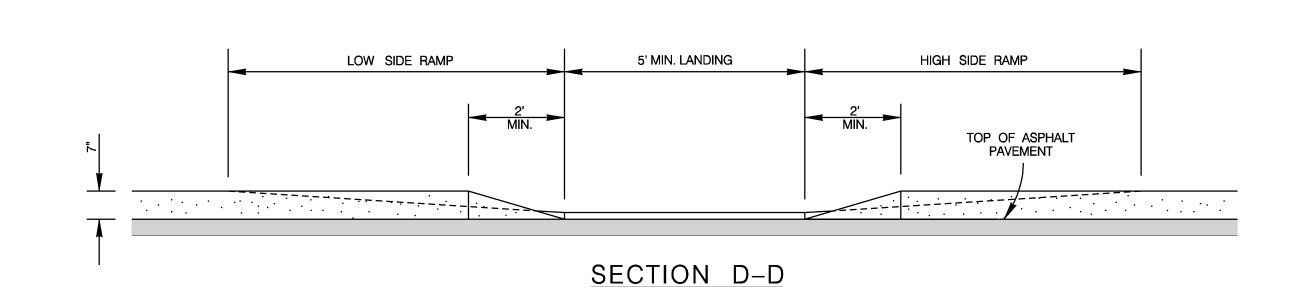
NO SCALE





CURB PROFILE WHERE SIDEWALK ABUTS CURB

SCALE : 1" = 2'



CURB PROFILE WHERE SIDEWALK IS SEPARATED FROM CURB SCALE : 1" = 2'

NOT TO EXCEED 200' **TYPICAL** CONCRETE SIDEWALK

	SEE NOTE 10	<del>.</del>
4 4	* * * * * *	_
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SIDEWALK	PASSING	SPACE
5		

TABLE 1 (SEE NOTE 4)			
GUTTER	SIDEWALK RAMP LENGTH (1:12)		
SLOPE	LOW SIDE	HIGH SIDE	
1%	5'–6"	7'–2"	
2%	5'–0"	8'–4"	
3%	4'–6"	10'-0"	
4%	4'–2"	12'-6"	
5%	3'-10"	16'–8"	

## JANUARY 2006

CITY OF SAN ANTONIO, TEXAS DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION

## WHEELCHAIR RAMP STANDARDS

DRAWN BY:	DATE	REVISIONS	SCALE:	SEE ABOVE
V. VASQUEZ	MAR 05	ADDED GENERAL NOTE NO. 11		
CHECKED BY:	JAN 06	REMOVED RAMP GROOVES &	DATE:	
BAZIS HOSSEINI P.E.	ADDED RAISED TRUNCATED DOMES	SHEET:	OF	

0.5" 13 MM	<b>↓</b>
	0.2" 
0.9" 23 MM	

NO SCALE